### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start		Rating **	Α	Issue No.		12	
		Issue Type +		Location *			
LM End		issue i ype +	Ма	Location		N/A	
Category Earthen Levee				GPS La	atituc	de/Longitude	
Calogory				Start		End	
Item		cy Supplies &			0		0
пеш	Equipmen	nt			0		0
DWR ID	DWR_MA0	012_01_s _ 201	3_12				
		Comn	nent Cod	le			
		Inspect	or Comm	nent			
The LMA has adequate flood fight supplies and equipment.							

No Photos

LM Start		Rating **	Α	Issue No.		13	
LM End		Issue Type +	Ма	Location *		N/A	
Category Earthen Levee				GPS La	atitud	le/Longitude	
Category	Category					End	
Item	Operation		0		0		
Item	Manuals				0		0
DWR ID	DWR_MA0	012_01_s _ 201	3_13				
		Comn	nent Cod	le			
		Inspect	or Comm	nent			
The LMA has the O&M manuals.							

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

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### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

		5					
LM Start		Rating **	Α	Issue No.		14	
LM End		Issue Type +	Ма	Location *		N/A	
Category Earthen Levee				GPS La	atituc	le/Longitude	
Calegory			Start		End		
Item	Flood Pre	paredness &	Training		0		0
пеш					0		0
DWR ID DWR_MA0012_01_s _ 2013_14							
		Comn	nent Cod	le			
		Inspecto	or Comm	ent			
The LMA completed flood fight training in 2016.							

No Photos

LM Start	0.44	Rating **	М	Issue No.		25		
LM End	0.49	Issue Type +	Ma	Location *		WS		
Category				GPS Latitude/Longitude				
Calegory	Start					End		
Item	2015 USACE Erosion Survey,			39.1579	57°	39.158226°		
пеш	DRAFT			-122.0219	50°	-122.021950 °		
DWR ID DWR_MA0012_01_s _ 2016_25								
Comment Code								

No Photos

#### Inspector Comment

2011 - Erosion occurring upstream and downstream of an irrigation diversion structure. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: SYC\_9-3\_L]

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	0.49	Rating **	М	Issue No.		54
LM End	0.49	Issue Type +	Ма	Location *		WS
Category	Suppleme	ental		GPS Lat	ituc	le/Longitude
Calegory			Start		End	
Item	DWR UCI	P LMA Respo	onsibility	39.03941	3°	39.039413 °
item				-121.99776	6°	-121.997766 °
DWR ID						

#### Inspector Comment

Comment Code

FS\_ID:51779 DS\_ID:17146 EP\_NO: 9382

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS is in good condition. LS inlet is more than 50% full of sediment. Pipe needs to be cleaned internally. (DWR Sutter Yard- AFreitag) 10/17/2016 MInor sediment blocking the WS flap gate from opening. LS inlet still mostly full of sediment.(DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed for flood season. Need to coordinate with owner to remove sediment blocking WS flap gate. (DWR UCIP - omagana)5/31/2016 WS flap gate is blocked from openeing by sediment. LS inlet is over 50% full of sediment. (DWR Sutter Yard - afreitag)5/4/2015 WS flap gate is blocked by sediment and unable to open. LS inlet is about 50% plugged with soil. Needs to be cleaned. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Sediment against flapgate has been cleared and it can now function properly. (DWR Sutter Yard - afreitag)7/16/2013 Sediment is built up against WS flapgate preventing it from opening. (DWR Sutter Yard afreitag)10/11/2012 Pipe is partially filled with soil. (DWR UCIP wwylie)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Baber). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 0.49, Drawing No. 50-4-3081)]

FS Date: 5/2/2017 1:38:42 PM



Intake at LS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	<b>0.49</b> Rating ** M Is		Issue No.		54 (cont)	
LM End	0.49	Issue Type +	Ма	Location *		WS
Category	Supplemental				atitud	le/Longitude
Calegory			Start		End	
Item	DWR UCI	P LMA Respo	nsibility	39.0394	13 °	39.039413 °
item				-121.9977	66 °	-121.997766 °
DWR ID						
Comment Code						

#### Inspector Comment

FS\_ID:51779 DS\_ID:17146 EP\_NO: 9382

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS is in good condition. LS inlet is more than 50% full of sediment. Pipe needs to be cleaned internally. (DWR Sutter Yard- AFreitag) 10/17/2016 MInor sediment blocking the WS flap gate from opening. LS inlet still mostly full of sediment.(DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed for flood season. Need to coordinate with owner to remove sediment blocking WS flap gate. (DWR UCIP - omagana)5/31/2016 WS flap gate is blocked from openeing by sediment. LS inlet is over 50% full of sediment. (DWR Sutter Yard - afreitag)5/4/2015 WS flap gate is blocked by sediment and unable to open. LS inlet is about 50% plugged with soil. Needs to be cleaned. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Sediment against flapgate has been cleared and it can now function properly. (DWR Sutter Yard - afreitag)7/16/2013 Sediment is built up against WS flapgate preventing it from opening. (DWR Sutter Yard afreitag)10/11/2012 Pipe is partially filled with soil. (DWR UCIP wwylie)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Baber). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 0.49, Drawing No. 50-4-3081)]

FS Date: 5/2/2017 1:38:42 PM



Outlet at WS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	0.49	Rating **	М	Issue No.		54 (cont)
LM End	0.49	Issue Type +	pe + Ma Location *		WS	
Category	Suppleme	ental		GPS Lat	itud	le/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	nsibility	39.03941	3°	39.039413 °
пеш				-121.99776	6°	-121.997766 °
DWR ID						

### Inspector Comment

Comment Code

FS\_ID:51779 DS\_ID:17146 EP\_NO: 9382

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS is in good condition. LS inlet is more than 50% full of sediment. Pipe needs to be cleaned internally. (DWR Sutter Yard- AFreitag) 10/17/2016 MInor sediment blocking the WS flap gate from opening. LS inlet still mostly full of sediment.(DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed for flood season. Need to coordinate with owner to remove sediment blocking WS flap gate. (DWR UCIP - omagana)5/31/2016 WS flap gate is blocked from openeing by sediment. LS inlet is over 50% full of sediment. (DWR Sutter Yard - afreitag)5/4/2015 WS flap gate is blocked by sediment and unable to open. LS inlet is about 50% plugged with soil. Needs to be cleaned. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Sediment against flapgate has been cleared and it can now function properly. (DWR Sutter Yard - afreitag)7/16/2013 Sediment is built up against WS flapgate preventing it from opening. (DWR Sutter Yard afreitag)10/11/2012 Pipe is partially filled with soil. (DWR UCIP wwylie)

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Baber). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 0.49, Drawing No. 50-4-3081)]

FS Date: 5/2/2017 1:38:42 PM



Inlet and concrete headwall on LS toe.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Oh : Design & System Obsol

Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	0.69	Rating **	М	Issue No.		36				
LM End	1.49	Issue Type +	Ma	Location *		WS				
Category	Earthen L	evee		GPS L	atitud	e/Longitude				
Calegory				Start		End				
Item	Vegetatio	n		39.0422	90°	39.052787°				
пеш				-121.9980	30°	-122.003160 °				
DWR ID DWR_MA0012_01_f _ 2016_36										
Comment Code										
V1 : Contre	•	grass and wee	eds on th	e levee slo	pes a	and				
Inspector Comment										



View of the annual grass along the waterside slope.

LM Start	1.38	Rating **	A/W	Issue No.		55
LM End	1.38	Issue Type +	Ма	Location *		WS
Category	Supplemental			GPS La	tituc	le/Longitude
Calegory			Start		End	
Item	DWR UCI	OWR UCIP LMA Responsibility			30°	39.051280 °
пеш				-122.00298	31 °	-122.002981 °
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:51780 DS\_ID:17147 EP\_NO: 9382

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. This is a gravity for the LS.(DWR Sutter Yard-AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing is in good condition. No issues.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Baber). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132,

October 1959 (HLM 1.4)] FS Date: 5/2/2017 1:40:20 PM

#### Photo 1 of 3: UCIP\_SP\_2017\_51780\_68977.jpg



Intake on LS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	1.38	Rating **	A/W	Issue No.		55 (cont)
LM End	1.38	Issue Type +	Ма	Location *		WS
Category	Supplemental			GPS La	titud	le/Longitude
Calegory	Calegory					End
Item	DWR UC	DWR UCIP LMA Responsibility			80°	39.051280 °
пеш				-122.00298	31 °	-122.002981 °
DWR ID						

# Comment Code

#### Inspector Comment

FS\_ID:51780 DS\_ID:17147 EP\_NO: 9382

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. This is a gravity for the LS.(DWR Sutter Yard-

AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing is in good condition. No

issues.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Baber). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132,

October 1959 (HLM 1.4)] FS Date: 5/2/2017 1:40:20 PM

LM Start	1.38	Rating **	A/W	Issue No.	55 (cont)
I M End	1.38	Issue Type +	Ma	Location *	WS



Outlet at WS toe.

Photo 3 of 3: UCIP\_SP\_2017\_51780\_68975.jpg



Concrete U shaped headwall on LS toe.

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N : Not Inspected/Rated C : Corrected

+ Issue Type
Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

A/W : Acceptable but Monitor & Maintain En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	1.69	Rating **	М	Issue No.		57
LM End	1.69	Issue Type +	Ma	Location *		WS
Supplemental GPS Latitud			Supplemental			le/Longitude
Calegory	Category					End
Item	DWR UC	DWR UCIP LMA Responsibility				39.055711 °
пеш			-122.0032	52 °	-122.003252 °	
DWR ID						

# Comment Code

#### Inspector Comment

FS\_ID:51782 DS\_ID:17149 EP\_NO: 9382

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS flapgate buried by sediment. Needs to be dug out. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. This is a gravity drain for the LS. (DWR Sutter Yard- AFreitag)5/31/2016 LS inlets was partially plugged. WS flapgate was clear of sediment and abale to operate properly.5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is plugged by silt and wood chippings. Needs to be cleaned.6/17/2014 Flap gate was cleaned out and is fully closed. LS inlet still partially full of soil.12/16/2013 Same as last inspection. WS flapgate still needs to be cleaned out and shut.7/16/2013 Same as last inspection. Make sure flapgate is closed before highwater season.10/11/2012 Inlet on LS filled partially with soil. Outlet blocked with soil and the flap gate wont close.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Baber). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 1.72)]

FS Date: 5/2/2017 1:50:52 PM

LM Start	1.69	Rating **	М	Issue No.	57 (cont)
LM End	1.69	Issue Type +	Ma	Location *	WS

#### Photo 1 of 3: UCIP\_SP\_2017\_51782\_68984.jpg



Outlet on WS toe.

Photo 2 of 3: UCIP\_SP\_2017\_51782\_68983.jpg



Inlet on LS toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	1.69	Rating **	М	Issue No.		57 (cont)
LM End	1.69	Issue Type +	Ма	Location *		WS
Category	Supplemental			GPS La	tituc	le/Longitude
Calegory	Jalegory					End
Item	DWR UCI	DWR UCIP LMA Responsibility			1 °	39.055711°
item				-122.00325	2°	-122.003252°
DWR ID						

# Comment Code

#### Inspector Comment

FS\_ID:51782 DS\_ID:17149 EP\_NO: 9382

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS flapgate buried by sediment. Needs to be dug out. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. This is a gravity drain for the LS. (DWR Sutter Yard- AFreitag)5/31/2016 LS inlets was partially plugged. WS flapgate was clear of sediment and abale to operate properly.5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is plugged by silt and wood chippings. Needs to be cleaned.6/17/2014 Flap gate was cleaned out and is fully closed. LS inlet still partially full of soil.12/16/2013 Same as last inspection. WS flapgate still needs to be cleaned out and shut.7/16/2013 Same as last inspection. Make sure flapgate is closed before highwater season.10/11/2012 Inlet on LS filled partially with soil. Outlet blocked with soil and the flap gate wont close.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Baber). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132,

October 1959 (HLM 1.72)] FS Date: 5/2/2017 1:50:52 PM



Concrete U shaped headwall at LS inlet.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	1.77	Rating **	A/W	Issue No.		58
LM End	1.77	Issue Type +	Ма	Location *		WS
Catagony	Category Supplemental			GPS La	titud	e/Longitude
Calegory				Start		End
Item	DWR UCIP LMA Responsibility			39.0568	47 °	39.056847 °
пеш				-122.00328	88 °	-122.003288 °
DWR ID						

# Comment Code

#### Inspector Comment

FS\_ID:51785 DS\_ID:17150 EP\_NO: 9387

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)5/31/2016 Crossing appears to be in good condition. Attatched photo showing location of LS inlet.5/4/2015 WS flapgate mostly underwater but could tell it was blocked open by something. LS inlet is located about 1/4 mile north along the side of the roadway.6/17/2014 Same as last inspection.12/16/2013 Pipe was flowing water and flap gate was bing pushed open. Cannot verify if it will close all the way.7/16/2013 Same as last inspection. Was told inlet is about 1/4 mile down road way next to house. Will try to get coordinates for inlet.10/11/2012 No inlet could be located on LS. Flap gate partially blocked and will not close completely.

FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate in 60-inch pipe riser on the waterside (WS) slope. Flap gate and concrete headwall on the WS. (Automatic Board Order (ABO) issued as Permit No. 9387, 1974 - Christenson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 1.8)] FS Date: 5/2/2017 1:56:07 PM

LM Start	1.77	Rating **	A/W	Issue No.	58 (cont)
I M End	1.77	Issue Type +	Ma	Location *	WS



60-inch standpipe with slide gate on WS slope with outlet in background.

#### Photo 2 of 3: UCIP\_SP\_2017\_51785\_68990.jpg



Flap gate and concrete headwall at WS toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	1.77	Rating **	A/W	Issue No.		58 (cont)
LM End	1.77	Issue Type +	Ма	Location *		WS
Category	Supplemental			GPS Lat	titud	le/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	onsibility	39.05684	7°	39.056847°
item			-122.00328	8 °	-122.003288 °	
DWR ID						

### Inspector Comment

Comment Code

FS\_ID:51785 DS\_ID:17150 EP\_NO: 9387

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition. Attatched photo showing location of LS inlet.5/4/2015 WS flapgate mostly underwater but could tell it was blocked open by something. LS inlet is located about 1/4 mile north along the side of the roadway.6/17/2014 Same as last inspection.12/16/2013 Pipe was flowing water and flap gate was bing pushed open. Cannot verify if it will close all the way.7/16/2013 Same as last inspection. Was told inlet is about 1/4 mile down road way next to house. Will try to get coordinates for inlet.10/11/2012 No inlet could be located on LS. Flap gate partially blocked and will not close completely.

FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate in 60-inch pipe riser on the waterside (WS) slope. Flap gate and concrete headwall on the WS. (Automatic Board Order (ABO) issued as Permit No. 9387, 1974 - Christenson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 1.8)] FS Date: 5/2/2017 1:56:07 PM



Arrow showing ocation of LS inlet

LM Start	1.81	Rating **	М	Issue No.		35	
LM End	1.81	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item	Slope Sta	bility		39.0573	93 °	39.057393°	
пеш			-122.0034	52 °	-122.003452 °		
DWR ID DWR_MA0012_01_f _ 2016_35							
Comment Code							

# S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

### Photo 1 of 1 : SP\_2017\_MA0012\_299\_35\_20170315\_00009.jpg



View of the slope instability caused by vehicles along the landside slope.

Rating Location + Issue Type Ma: Maintenance Deficiancy LS: Land Side N: Not Inspected/Rated N/A: Not Applicable A : Acceptable Minimally Acceptable WS: Water Side C: Corrected Ob: Design & System Obsolescence CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	1.98	Rating **	М	Issue No.	Issue No.			
LM End	1.98	Issue Type +	Ma	Location *		LS		
Category	Supplemental Supplemental			GPS Latitude/Longitude				
Calegory	Calegory			Start		End		
Item	DWR UCIP LMA Responsibility			39.05977	'3 °	39.059773	0	
item				-122.00439	)1 °	-122.004391	0	
DWR ID								

#### Comment Code

#### Inspector Comment

FS\_ID:51786 DS\_ID:17151 EP\_NO: 9391

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Both ends of pipe buried. (DWR Sutter Yard- AFreitag)10/17/2016 Appears abandoned. Both pipe ends are completely buried. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent both pipe ends are buried. Having both ends buried prevents water from flowing from WS to LS during flood season. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)5/31/2016 Both pipe ends are buried. Pipe is nonoperational. (DWR Sutter Yard - afreitag)5/4/2015 LS and WS ends are blocked with soil. Pipe is inoperable as it is. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 LS inlet is completely filled with soil. Needs to be cleaned out. (DWR Sutter Yard - afreitag)10/11/2012 Inlet is partially filled with soil. (DWR Sutter Yard - wwylie)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9391, Christenson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 2.02)]

FS Date: 5/2/2017 2:01:25 PM



WS view of outlet

MA0012

#### Flood Control Project Maintenance Levee Inspections

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	1.98	Rating **	М	Issue No.		59 (cont)	
LM End	1.98	Issue Type +	Ma	Location *		LS	
Supplemental			GPS Latitude/Longitude				
Calegory			Start		End		
Item	DWR UC	IP LMA Respo	onsibility	39.0597	73 °	39.059773°	
пеш			-122.00439	91 °	-122.004391 °		
DWR ID							
Comment Code							

#### Inspector Comment

FS\_ID:51786 DS\_ID:17151 EP\_NO: 9391

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Both ends of pipe buried. (DWR Sutter Yard- AFreitag)10/17/2016 Appears abandoned. Both pipe ends are completely buried. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent both pipe ends are buried. Having both ends buried prevents water from flowing from WS to LS during flood season. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)5/31/2016 Both pipe ends are buried. Pipe is non-operational. (DWR Sutter Yard - afreitag)5/4/2015 LS and WS ends are blocked with soil. Pipe is inoperable as it is. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 LS inlet is completely filled with soil. Needs to be cleaned out. (DWR Sutter Yard - afreitag)10/11/2012 Inlet is partially filled with soil. (DWR Sutter Yard - wwylie)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9391, Christenson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 2.02)]

FS Date: 5/2/2017 2:01:25 PM

#### Photo 2 of 3: UCIP\_SP\_2017\_51786\_68993.jpg



LS view of inlet.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	1.98	Rating **	М	Issue No.		59 (cont)	
LM End	1.98	Issue Type +	Ма	Location *	LS		
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	onsibility	39.0597	73°	39.059773°	
пеш				-122.0043	91 °	-122.004391 °	
DWR ID							
	Comment Code						

#### Inspector Comment

FS\_ID:51786 DS ID:17151 EP\_NO: 9391

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Both ends of pipe buried. (DWR Sutter Yard- AFreitag)10/17/2016 Appears abandoned. Both pipe ends are completely buried. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent both pipe ends are buried. Having both ends buried prevents water from flowing from WS to LS during flood season. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP omagana)5/31/2016 Both pipe ends are buried. Pipe is nonoperational. (DWR Sutter Yard - afreitag)5/4/2015 LS and WS ends are blocked with soil. Pipe is inoperable as it is. (DWR Sutter Yard afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard afreitag)7/16/2013 LS inlet is completely filled with soil. Needs to be cleaned out. (DWR Sutter Yard - afreitag)10/11/2012 Inlet is partially filled with soil. (DWR Sutter Yard - wwylie)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9391, Christenson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M

Manual 132, October 1959 (HLM 2.02)] FS Date: 5/2/2017 2:01:25 PM

Location



Concrete U shaped headwall at LS toe.

N: Not Inspected/Rated C: Corrected

Issue Type Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

3.15	Rating **	A/W	Issue No.		60	
3.15	Issue Type +	Ма	Location *	LS		
Category			GPS Latitude/Longitude			
			Start		End	
DWR UCI	P LMA Respo	nsibility	39.07415	1 °	39.074151°	
Item			-122.01496	0 °	-122.014960 °	
	3.15 Suppleme	3.15 Issue Type + Supplemental	3.15 Issue Type + Ma	3.15 Issue Type + Ma Location *  Supplemental GPS Lat  Start  DWR UCIP LMA Responsibility 39.07415	3.15 Issue Type + Ma Location *  Supplemental GPS Latitud Start	

### Comment Code

#### Inspector Comment

FS\_ID:51788 DS ID:17153 EP\_NO: 9384

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing appears in good condition. No noticeable issues.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9384, 1974 - Struckmeyer) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M

Manual 132, October 1959 (HLM 3.22)]

FS Date: 5/2/2017 2:04:40 PM

LM Start	3.15	Rating **	A/W	Issue No.	60 (cont)
LM End	3.15	Issue Type +	Ma	Location *	LS



Concrete headwall at LS toe.

Photo 2 of 3: UCIP\_SP\_2017\_51788\_69001.jpg



Drainage Swale on WS toe.

Rating A : Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

C: Corrected A/W : Acceptable but Monitor & Maintain Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	3.15	Rating **	A/W	Issue No.		60 (cont)
LM End	3.15	Issue Type +	Ma	Location *		LS
Category	Suppleme	ental		GPS La	tituc	e/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	P LMA Responsibility		51 °	39.074151 °
пеш					60°	-122.014960 °
DWR ID						

### Comment Code

#### Inspector Comment

FS\_ID:51788 DS\_ID:17153 EP\_NO: 9384

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing appears in good condition. No noticeable issues.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9384, 1974 - Struckmeyer) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M

Manual 132, October 1959 (HLM 3.22)] FS Date: 5/2/2017 2:04:40 PM



Concrete headwall and flap gate at WS toe.

LM Start	3.46	Rating **	U	Issue No.		48		
LM End	11.04	Issue Type +	Ма	Location *		CR		
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start End				
Item	Crown Surface / Depressions /			39.078582 °		39.180208 °		
пеш	Rutting					-122.011983 °		
DWR ID	DWR_MA0	012_01_s _ 201	7_48					
Comment Code								
C2 : Repair depressions or ruts in the crown or slope.								

#### Inspector Comment

Repairs the ruts and gravel crown roadway.

#### Photo 1 of 1: SP\_2017\_MA0012\_299\_48\_20170327\_00085.jpg



View of the ruts in the crown roadway.

MA0012

#### **Flood Control Project Maintenance** Levee Inspections

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	3.69	Rating **	U	Issue No.		61
LM End	3.69	Issue Type +	Ма	Location *		CR
Category	Suppleme	ental		GPS La	titud	le/Longitude
Calegory			Responsibility	Start		End
ltom	DWR UC	IP LMA Respo	LMA Responsibility		9°	39.081949°
пеш	Item			-122.01617	'9	-122.016179°
DWR ID						

## Inspector Comment

Comment Code

FS\_ID:51789 DS ID:17154 EP\_NO: 9388 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS slidegate stem is still bent, wheel tto operate gate is missing. Needs a cover made for the standpipe to prevent falls. (DWR Sutter Yard- AFreitag)10/17/2016 Slide gate stem is still and and the gate appears to be inoperable. (DWR Sutter Yard- AFreitag)5/31/2016 SLide gate stem is still bent. WS flap gate is chained open. (DWR Sutter Yard - afreitag)5/4/2015 Slide gate stem is still bent. Gate looks to be unable to close all the way. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Slide gate stem is still bent. WS flapgate was closed. (DWR Sutter Yard - afreitag)7/16/2013 Water flowing through pipe so screw gate definately not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season. (DWR Sutter Yard - afreitag)10/11/2012 Slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry. (DWR UCIP - wwylie)

FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, 28 feet below the crown. Slide gate in 66-inch pipe riser on the waterside (WS) slope. Concrete headwall on the WS. Grouted cobble spillway from drain ditch to large canal on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9388, 1974 -Wallace) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 3.78)] FS Date: 5/2/2017 2:05:16 PM



Slide gate in corrugated metal riser on WS slope.

Rating

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	3.69	Rating **	U	Issue No.		61 (cont)	
LM End	3.69	Issue Type +	Ма	Location *	CR		
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	onsibility	39.0819	49°	39.081949°	
пеш				-122.0161	79°	-122.016179°	
DWR ID							
	Comment Code						

#### Inspector Comment

FS\_ID:51789 DS\_ID:17154 EP\_NO: 9388 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS slidegate stem is still bent, wheel tto operate gate is missing. Needs a cover made for the standpipe to prevent falls. (DWR Sutter Yard- AFreitag)10/17/2016 Slide gate stem is still and and the gate appears to be inoperable. (DWR Sutter Yard- AFreitag)5/31/2016 SLide gate stem is still bent. WS flap gate is chained open. (DWR Sutter Yard - afreitag)5/4/2015 Slide gate stem is still bent. Gate looks to be unable to close all the way. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Slide gate stem is still bent. WS flapgate was closed. (DWR Sutter Yard - afreitag)7/16/2013 Water flowing through pipe so screw gate definately not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season. (DWR Sutter Yard - afreitag)10/11/2012 Slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry. (DWR UCIP - wwylie)

FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, 28 feet below the crown. Slide gate in 66-inch pipe riser on the waterside (WS) slope. Concrete headwall on the WS. Grouted cobble spillway from drain ditch to large canal on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Wallace) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 3.78)] FS Date: 5/2/2017 2:05:16 PM



Drainage ditch on LS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	3.69	Rating **	U	Issue No.		61 (cont)
LM End	3.69	Issue Type +	Ma	Location *	CR	
Category	Suppleme	ental		GPS La	tituc	le/Longitude
Calegory				Start		End
Itom	DWR UC	IP LMA Respo	P LMA Responsibility		49°	39.081949°
Item				-122.0161	79°	-122.016179°
DWR ID						

### Inspector Comment

Comment Code

FS\_ID:51789 DS\_ID:17154 EP\_NO: 9388 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS slidegate stem is still bent, wheel tto operate gate is missing. Needs a cover made for the standpipe to prevent falls. (DWR Sutter Yard- AFreitag)10/17/2016 Slide gate stem is still and and the gate appears to be inoperable. (DWR Sutter Yard- AFreitag)5/31/2016 SLide gate stem is still bent. WS flap gate is chained open. (DWR Sutter Yard - afreitag)5/4/2015 Slide gate stem is still bent. Gate looks to be unable to close all the way. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Slide gate stem is still bent. WS flapgate was closed. (DWR Sutter Yard - afreitag)7/16/2013 Water flowing through pipe so screw gate definately not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season. (DWR Sutter Yard - afreitag)10/11/2012 Slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry. (DWR UCIP - wwylie)

FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, 28 feet below the crown. Slide gate in 66-inch pipe riser on the waterside (WS) slope. Concrete headwall on the WS. Grouted cobble spillway from drain ditch to large canal on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Wallace) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 3.78)]

FS Date: 5/2/2017 2:05:16 PM



Bent screw for slide gate at WS shoulder.

Wednesday, May 31, 2017 16:07

Rating

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintena

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

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### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	4.15	Rating **	A/W	Issue No.	62		
LM End	4.15	Issue Type +	Ма	Location *	CR		
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start			End	
Item	DWR UC	IP LMA Respo	onsibility	39.0885	61 °	39.088561 °	
пеш				-122.0151	79°	-122.015179°	
DWR ID							
	Comment Code						

#### Inspector Comment

FS\_ID:51791 DS ID:17168 EP\_NO: 9388

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 27.5 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway located on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Wallace). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 4.25)]

FS Date: 5/2/2017 2:08:40 PM

LM Start	4.15	Rating **	A/W	Issue No.	62 (cont)
LM End	4.15	Issue Type +	Ma	Location *	CR



Outlet at WS toe.

Photo 2 of 3: UCIP\_SP\_2017\_51791\_69013.jpg



Concrete U shaped headwall on LS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	4.15	Rating **	A/W	Issue No.		62 (cont)
LM End	4.15	Issue Type +	Ма	Location *		CR
Category	Suppleme	ental		GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UC	P LMA Respo	nsibility	39.088561°		39.088561 °
пеш				-122.01517	'9	-122.015179°
DWR ID						
	Comment Code					

#### Inspector Comment

FS\_ID:51791 DS\_ID:17168 EP\_NO: 9388

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag) 10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 27.5 feet below the crown. Flap gate, concrete headwall and grouted cobble spillway located on the waterside (WS). Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Wallace). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M

Manual 132, October 1959 (HLM 4.25)] FS Date: 5/2/2017 2:08:40 PM



Concrete U shaped headwall and flap gate on WS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	4.22	Rating **	A/W	Issue No.		63
LM End	4.22	Issue Type +	Ma	Location *		CR
Category	Suppleme	ental		GPS La	atitud	le/Longitude
Calegory			Start		End	
Item	DWR UC	IP LMA Respo	P LMA Responsibility		51 °	39.089551 °
пеш				-122.0152	41 °	-122.015241 °
DWR ID						

# Comment Code

Inspector Comment

FS\_ID:51792 DS\_ID:17156 EP\_NO: 9388

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag) 10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

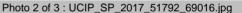
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump on 60-inch concrete standpipe at landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Wallace). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 4.32)]

FS Date: 5/2/2017 2:20:21 PM

LM Start	4.22	Rating **	A/W	Issue No.	63 (cont)
LM End	4.22	Issue Type +	Ma	Location *	CR



Pump on Concrete riser at LS toe.





Pipe through levee at LS slope.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	4.22	Rating **	A/W	Issue No.		63 (cont)	
LM End	4.22	Issue Type +	Ма	Location *	CR		
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start			End	
Item	DWR UC	IP LMA Respo	onsibility	39.0895	51 °	39.089551 °	
пеш				-122.0152	41 °	-122.015241 °	
DWR ID							
	Comment Code						

#### Inspector Comment

FS\_ID:51792 DS\_ID:17156 EP\_NO: 9388

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag) 10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump on 60-inch concrete standpipe at landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Wallace). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M

Manual 132, October 1959 (HLM 4.32)] FS Date: 5/2/2017 2:20:21 PM

### Photo 3 of 3: UCIP\_SP\_2017\_51792\_69015.jpg



36-inch CMP riser with Slide gate on WS shoulder.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	4.76	Rating **	A/W	Issue No.		65
LM End	4.76	Issue Type +	Ма	Location *		CR
Category	Supplemental			GPS Latitude/Longitude		
Calegory	itegory			Start		End
Item	DWR UCI	P LMA Respo	onsibility	39.09737	78°	39.097378°
пеш	_			-122.01556	60°	-122.015560 °
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:51795 DS\_ID:17158 EP\_NO: 9390

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. There is minor sediment build up in front of the WS flap gate/ (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 New flapgate installed on WS pipe end.10/11/2012 Flap gate broken on WS, Pipe shows significant rust at outlet. This is a good candidate for video inspection.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe though the levee, 20 feet below the crown. Pump on metal pier in landside (LS) channel. 40-inch steel standpipe at LS toe. Flap gate and concrete headwall on the waterside (WS). Concrete headwall on the LS. (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 4.87)] FS Date: 5/2/2017 2:30:31 PM

LM Start	4.76	Rating **	A/W	Issue No.	65 (cont)
LM End	4.76	Issue Type +	Ma	Location *	CR



Outlet channel on WS toe.

#### Photo 2 of 3: UCIP\_SP\_2017\_51795\_69025.jpg



Pump, walkway, and standpipe on LS toe.

Location Rating + Issue Type Ma: Maintenance Deficiancy LS: Land Side N/A: Not Applicable N: Not Inspected/Rated A : Acceptable Minimally Acceptable Ob: Design & System Obsolescence WS: Water Side C: Corrected En: Enforcement CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	4.76	Rating **	A/W	Issue No.		65 (cont)		
LM End	4.76	Issue Type +	Ma	Location *	CR			
Category	Suppleme	ental	GPS La	le/Longitude				
Calegory	gory					End		
Item	DWR UC	IP LMA Respo	onsibility	39.0973	78°	39.097378°		
пеш				-122.0155	60°	-122.015560 °		
DWR ID								
Comment Code								

#### Inspector Comment

FS\_ID:51795 DS\_ID:17158 EP\_NO: 9390

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. There is minor sediment build up in front of the WS flap gate/ (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition. S/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 New flapgate installed on WS pipe end.10/11/2012 Flap gate broken on WS, Pipe shows significant rust at outlet. This is a good candidate for video inspection.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe though the levee, 20 feet below the crown. Pump on metal pier in landside (LS) channel. 40-inch steel standpipe at LS toe. Flap gate and concrete headwall on the waterside (WS). Concrete headwall on the LS. (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 4.87)] FS Date: 5/2/2017 2:30:31 PM



Flap gate in concrete U-shaped headwall on WS toe.

+ Issue Type

Ma: Maintenance Deficiancy
Oh: Design & System Obsol

Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.01	Rating **	М	Issue No.	66		
LM End	5.01	Issue Type +	Ма	Location *	CR		
Category	Suppleme	pplemental		GPS Latitude/L			
Calegory	Start					End	
Item	DWR UCI	P LMA Respo	nsibility	39.1008	98 °	39.100898°	
пеш				-122.0160	-122.016078 °		
DWR ID							
Comment Code							

#### Inspector Comment

FS\_ID:51796 DS\_ID:17191 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS headwall and flapgate almost completely buried with only a small portion of the head wall visible. LS end is buried and unable to be located. (DWR Sutter Yard-AFreitag)10/17/2016 WS flap gate is still silted over and LS inlet is heavily vegetated and unable to be inspected. (DWR Sutter Yard-AFreitag)9/29/2016 Crosssing has been downgraded from Urgent to Non-Urgent WS flap gate is closed shut due to sediment build up. For flood season flap gate is required to be closed. Need to coordinate with owner to remove sediment from WS to have WS flap gate be operable after flood season. (DWR UCIP - omagana)5/31/2016 WS pipe end was mostly underwater but it appears to still be silted over. (DWR Sutter Yard - afreitag)5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. (DWR UCIP - wwylie) FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 15 feet below the crown. Concrete headwalls on both the waterside (WS) and (LS) ends with an automatic drainage gate on the WS. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959 (HLM 5.12)] FS Date: 5/2/2017 2:31:39 PM



Apparent inlet clogged with concrete or grout on LS toe in drainage swale.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.01	Rating **	М	Issue No.		66 (cont)	
LM End	5.01	Issue Type +	Ma	Location *	CR		
Category	Suppleme	ental		GPS La	le/Longitude		
Calegory	Category					End	
Item	DWR UCI	P LMA Respo	onsibility	39.1008	98°	39.100898°	
пеш				-122.0160	78 °	-122.016078°	
DWR ID							
Comment Code							

#### Inspector Comment

FS\_ID:51796 DS\_ID:17191 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS headwall and flapgate almost completely buried with only a small portion of the head wall visible. LS end is buried and unable to be located. (DWR Sutter Yard-AFreitag)10/17/2016 WS flap gate is still silted over and LS inlet is heavily vegetated and unable to be inspected. (DWR Sutter Yard-AFreitag)9/29/2016 Crosssing has been downgraded from Urgent to Non-Urgent WS flap gate is closed shut due to sediment build up. For flood season flap gate is required to be closed. Need to coordinate with owner to remove sediment from WS to have WS flap gate be operable after flood season. (DWR UCIP - omagana)5/31/2016 WS pipe end was mostly underwater but it appears to still be silted over. (DWR Sutter Yard - afreitag)5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. (DWR UCIP - wwylie) FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 15 feet below the crown. Concrete headwalls on both the waterside (WS) and (LS) ends with an automatic drainage gate on the WS. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959 (HLM 5.12)] FS Date: 5/2/2017 2:31:39 PM



Outlet on WS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.01	Rating **	М	Issue No.		66 (cont)
LM End	5.01	Issue Type +	Ма	Location *		CR
Category	Supplemental			GPS Lat	itud	e/Longitude
Calegory	category					End
ltom	DWR UC	IP LMA Respo	onsibility	39.10089	8°	39.100898°
пеш	Item		-122.01607	8°	-122.016078 °	
DWR ID						

### Comment Code

#### Inspector Comment

FS\_ID:51796 DS\_ID:17191 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 WS headwall and flapgate almost completely buried with only a small portion of the head wall visible. LS end is buried and unable to be located. (DWR Sutter Yard-AFreitag)10/17/2016 WS flap gate is still silted over and LS inlet is heavily vegetated and unable to be inspected. (DWR Sutter Yard-AFreitag)9/29/2016 Crosssing has been downgraded from Urgent to Non-Urgent WS flap gate is closed shut due to sediment build up. For flood season flap gate is required to be closed. Need to coordinate with owner to remove sediment from WS to have WS flap gate be operable after flood season. (DWR UCIP - omagana)5/31/2016 WS pipe end was mostly underwater but it appears to still be silted over. (DWR Sutter Yard - afreitag)5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. (DWR UCIP - wwylie) FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 15 feet below the crown. Concrete headwalls on both the waterside (WS) and (LS) ends with an automatic drainage gate on the WS. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959 (HLM 5.12)] FS Date: 5/2/2017 2:31:39 PM

#### Photo 3 of 3: UCIP\_SP\_2017\_51796\_69028.jpg



Concrete U shaped headwall and flap gate on WS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.90	Rating **	A/W	Issue No.		67	
LM End	5.90	Issue Type +	Ma	Location *		CR	
Catagony	Supplemental			GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR UC	IP LMA Respo	onsibility	39.11384	40°	39.113840°	
пеш				-122.01773	36°	-122.017736 °	
DWR ID							

### Inspector Comment

Comment Code

FS\_ID:51797 DS\_ID:17190 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. Pipe was field verified to be 48inch cmp. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.

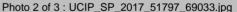
FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 22-feet below the crown. Concrete headwalls at both the waterside (WS) and landside (LS) ends with flap gate on the WS. 36-inch corrugated metal pipe (CMP) riser on the LS toe with steel pipe extension for overflow wier of LS ditch. Walkway and pump not associated with this crossing. (Automatic board order (ABO) issued as Permit No. 8234, 1972 - Glenn Irrigation District for 36-inch not 48-inch) [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959 (HLM 6.04, Drawing No. 50-4-3081 sheet 16)]

FS Date: 5/2/2017 2:33:13 PM

LM Start	5.90	Rating **	A/W	Issue No.	67 (cont)
LM End	5.90	Issue Type +	Ma	Location *	CR

Photo 1 of 3: UCIP\_SP\_2017\_51797\_69034.jpg

36-inch CM standpipe with steel pipe extension for weir on LS toe. pump not associated with storm drain crossing.





36-inch CM standpipe with steel pipe extension for weir on LS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.90	Rating **	A/W	Issue No.	67 (cont)		
LM End	5.90	Issue Type +	Ма	Location *	CR		
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			39.11384	40 °	39.113840°	
пеш				-122.01773	36°	-122.017736 °	
DWR ID							
Comment Code							

#### Inspector Comment

FS\_ID:51797 DS\_ID:17190 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

FS Date: 5/2/2017 2:33:13 PM

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. Pipe was field verified to be 48inch cmp. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 22-feet below the crown. Concrete headwalls at both the waterside (WS) and landside (LS) ends with flap gate on the WS. 36-inch corrugated metal pipe (CMP) riser on the LS toe with steel pipe extension for overflow wier of LS ditch. Walkway and pump not associated with this crossing. (Automatic board order (ABO) issued as Permit No. 8234, 1972 - Glenn Irrigation District for 36-inch not 48-inch) [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959 (HLM 6.04, Drawing No. 50-4-3081 sheet 16)]



Flap gate in concrete U-shaped headwall at WS toe.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Mainte

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.96	Rating **	A/W	Issue No.	68			
LM End	5.96	Issue Type +	Ма	Location *	CR			
Category	Suppleme	ental		GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCIP LMA Responsibility			39.1146	33 °	39.114633°		
пеш				-122.0178	48 °	-122.017848°		
DWR ID								
	Comment Code							

Inspector Comment

FS\_ID:51798 DS\_ID:17161 EP\_NO: 9390

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, 20.3 feet below the crown. Concrete headwall and cobble re-vetted spillway on the waterside (WS). Slide gate in 60-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 6.10)]

FS Date: 5/2/2017 2:34:03 PM

LM Start	5.96	Rating **	A/W	Issue No.	68 (cont)
LMEnd	5.06	Issue Type +	Ma	Location *	CP



48-inch flap gate on WS toe.

Photo 2 of 3: UCIP\_SP\_2017\_51798\_69041.jpg



60-inch CMP riser with slide gate on WS slope.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.96	Rating **	A/W	Issue No.	68 (cont)		
LM End	5.96	Issue Type +	Ма	Location *	CR		
Category	Suppleme	ental		GPS La	Latitude/Longitude		
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			39.1146	33 °	39.114633 °	
пеш				-122.0178	48 °	-122.017848 °	
DWR ID							
	Comment Code						

#### Inspector Comment

FS\_ID:51798 DS\_ID:17161 EP\_NO: 9390

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 48-inch corrugated metal drainage pipe through the levee, 20.3 feet below the crown. Concrete headwall and cobble re-vetted spillway on the waterside (WS). Slide gate in 60-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 6.10)]

FS Date: 5/2/2017 2:34:03 PM



Concrete headwall with slide gate at LS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.98	Rating **	A/W	Issue No.		70								
LM End	5.98	98 Issue Type + Ma Location *		.98 Issue Type + Ma Location *		5.98 Issue Type + Ma Location *		CR						
Category Supplemental				GPS Latitude/Longitude										
Calegory		B Issue Type + Ma Location *		End										
Item	DWR UCI	P LMA Respo	onsibility	39.11494	49 °	39.114949°								
пеш				-122.01794	46 °	-122.017946 °								
DWR ID														

#### Comment Code

#### Inspector Comment

FS\_ID:51799 DS\_ID:17162 EP\_NO: 9390

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/31/2016 Replaced by DS ID#20715 pipe.5/4/2015 Crossing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last

inspection.12/16/2013 Same as last inspection.7/16/2013 Same as

last inspection.

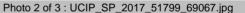
FIELD\_STRUCT\_DESC: \*REMOVED\* 1 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump on the waterside (WS). Siphon breaker in 18-inch metal pipe risers on the WS shoulder. Pump house at toe of landside (LS) slope. (original O&M manual entry, Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe, pipe removed and replaced with new 20-inch pipe (see DS\_ID 20715) under Permit No. 13699, 1983 - Davis Ranches) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 6.13)] FS Date: 5/2/2017 2:35:03 PM

LM Start	5.98	Rating **	A/W	Issue No.	70 (cont)
LM End	5.98	Issue Type +	Ma	Location *	CR

### Photo 1 of 3: UCIP\_SP\_2017\_51799\_69068.jpg



Siphon Breakers in risers on WS slope.





Pumphouse on LS slope.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

5.98	Rating **	A/W	Issue No.		70 (cont)
5.98	Issue Type +	Ма	Location *		CR
Category			GPS Lat	ituc	de/Longitude
		Start		End	
DWR UCI	P LMA Respo	nsibility	39.11494	9°	39.114949 °
		-122.01794	6°	-122.017946 °	
	5.98 Suppleme	5.98 Issue Type + Supplemental	5.98 Issue Type + Ma	5.98 Issue Type + Ma Location *  Supplemental GPS Lat  Start  DWR UCIP LMA Responsibility 39.11494	5.98 Issue Type + Ma Location * Supplemental GPS Latitud Start

### Comment Code

#### Inspector Comment

FS\_ID:51799 DS ID:17162 EP\_NO: 9390

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/31/2016 Replaced by DS ID#20715 pipe.5/4/2015 Crossing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last

inspection.12/16/2013 Same as last inspection.7/16/2013 Same as

last inspection.

FIELD\_STRUCT\_DESC: \*REMOVED\* 1 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump on the waterside (WS). Siphon breaker in 18-inch metal pipe risers on the WS shoulder. Pump house at toe of landside (LS) slope. (original O&M manual entry, Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe, pipe removed and replaced with new 20-inch pipe (see DS\_ID 20715) under Permit No. 13699, 1983 - Davis Ranches) [Additional Reference(s): DWR Levee Log, 2005. USACE

Sacramento O&M Manual 132, October 1959 (HLM 6.13)]

FS Date: 5/2/2017 2:35:03 PM



24-inch pipe on LS slope.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.98	Rating **	A/W	Issue No.		71
LM End	5.98	Issue Type +	Ма	Location *		CR
Category	Supplemental			GPS La	titud	le/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	onsibility	39.11496	63 °	39.114963 °
item				-122.01794	47 °	-122.017947 °
DWR ID						

### Inspector Comment

Comment Code

FS\_ID:51802 DS\_ID:17198 EP\_NO: 9390

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/31/2016 Replaced by DS ID#20716 pipe.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last

inspection.12/16/2013 Same as last inspection.7/16/2013 Same as

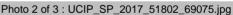
last inspection.

FIELD\_STRUCT\_DESC: \*REMOVED\* 2 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in 18-inch metal pipe risers on the WS shoulder. Pump house at toe of landside (LS) slope. Pump house at toe of landside (LS) slope. (original O&M manual entry, Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe, pipe removed under Permit No. 13699, 1983 - Davis Ranches) Crossing replaced by a 20-inch pipe at same location under Permit No. 13699. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 6.13)] FS Date: 5/2/2017 2:37:11 PM

LM Start	5.98	Rating **	A/W	Issue No.	71 (cont)
LM End	5.98	Issue Type +	Ma	Location *	CR



Pump house on LS slope





20-inch pipe at center of photo.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

5.98	Rating **	A/W	Issue No.		71 (cont)
5.98	Issue Type +	Ма	Location *		CR
Category			GPS Lat	ituc	le/Longitude
			Start		End
DWR UCI	P LMA Respo	nsibility	39.11496	3°	39.114963
				7°	-122.017947
	5.98 Suppleme	5.98 Issue Type + Supplemental	5.98 Issue Type + Ma	5.98 Issue Type + Ma Location *  Supplemental GPS Lat  Start  DWR UCIP LMA Responsibility 39.11496	5.98 Issue Type + Ma Location *  Supplemental GPS Latitud Start

### Comment Code

#### Inspector Comment

FS\_ID:51802 DS ID:17198 EP\_NO: 9390

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 5/31/2016 Replaced by DS ID#20716 pipe.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last

inspection.12/16/2013 Same as last inspection.7/16/2013 Same as

last inspection.

FIELD\_STRUCT\_DESC: \*REMOVED\* 2 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in 18-inch metal pipe risers on the WS shoulder. Pump house at toe of landside (LS) slope. Pump house at toe of landside (LS) slope. (original O&M manual entry, Automatic Board Order (ABO) issued as Permit No. 9390, 1974 -Profpe, pipe removed under Permit No. 13699, 1983 - Davis Ranches) Crossing replaced by a 20-inch pipe at same location under Permit No. 13699. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 6.13)]

FS Date: 5/2/2017 2:37:11 PM



Pump for 20-inch pipe at left. See oil bouser and leakage around pumps.

N: Not Inspected/Rated C: Corrected A/W : Acceptable but Monitor & Maintain Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.98	Rating **	М	Issue No.		73		
LM End	5.98	Issue Type + Ma L		Location *		CR		
Category	Supplemental				GPS Latitude/Longitude			
Calegory			Start		End			
Item	DWR UCI	P LMA Respo	onsibility	39.1149	77°	39.114977°		
пеш				-122.0179	47 °	-122.017947 °		
DWR ID								

### Comment Code

#### Inspector Comment

FS\_ID:51803 DS ID:17199 EP\_NO: 9390

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Pipe appears to be in good condition. Minor

erosion above the LS pump house. (DWR Sutter Yard-

AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last

inspection.12/16/2013 Same as last inspection.7/16/2013 Same as

last inspection.10/11/2012 Minor oil leak on pump.

FIELD\_STRUCT\_DESC: 3 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in 16-inch metal pipe risers on the WS shoulder. Pump house at toe of landside (LS) slope. (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 6.13)]

FS Date: 5/2/2017 2:37:23 PM

LM Start	5.98	Rating **	М	Issue No.	73 (cont)
LM End	5 98	Issue Type +	Ma	Location *	CR

### Photo 1 of 3: UCIP\_SP\_2017\_51803\_69081.jpg



Pump house on LS slope.

Photo 2 of 3: UCIP\_SP\_2017\_51803\_69080.jpg



Siphon breaker on WS shoulder.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	5.98	Rating **	М	Issue No.		73 (cont)	
LM End	5.98	Issue Type +	Ma	Location *		CR	
Category	Supplemental				GPS Latitude/Longitude		
Calegory						End	
Item	DWR UC	IP LMA Respo	onsibility	39.1149	77°	39.114977°	
пеш				-122.0179	47 °	-122.017947 °	
DWR ID							

#### Inspector Comment

Comment Code

FS\_ID:51803 DS ID:17199 EP\_NO: 9390

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Pipe appears to be in good condition. Minor

erosion above the LS pump house. (DWR Sutter Yard-

AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last

inspection.12/16/2013 Same as last inspection.7/16/2013 Same as

last inspection.10/11/2012 Minor oil leak on pump.

FIELD\_STRUCT\_DESC: 3 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in 16-inch metal pipe risers on the WS shoulder. Pump house at toe of landside (LS) slope. (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 6.13)]

FS Date: 5/2/2017 2:37:23 PM



Pipe at exit from pumphouse.

LM Start	6.05	Rating **	М	Issue No.		32
LM End	6.05	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS La	titud	le/Longitude	
Calegory						End
Item	Animal Co	ontrol		39.1159	03 °	39.115903°
пеш				-122.0181	90°	-122.018190 °
DWR ID DWR_MA0012_01_f _ 2016_32						
Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

#### Photo 1 of 1: SP\_2017\_MA0012\_299\_32\_20170315\_00006.jpg



View of the rodent holes along the landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

I M Ot- of	7.34	Rating **	U	Issue No.		50
LM Start	7.34	Rating	U	issue ivo.		<b>5</b> 0
LM End	7.36	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Slope Sta	bility		39.1337	'43 °	39.134037 °
item				-122.0227	'80 °	-122.022808 °
DWR ID DWR_MA0012_01_s _ 2017_50						
		Comn	nent Cod	le		
S1 : Repair slope instability.						
Inspector Comment						
Repair the slough on the waterside slope.						
,						



View of the slough on the waterside slope.

LM Start	7.46	Rating **	U	Issue No.		51	
LM End	7.57	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atituc	le/Longitude	
Category				Start		End	
Item	Slope Sta	bility		39.1353	67°	39.137032 °	
пеш			-122.022830 °		-122.022838 °		
DWR ID DWR_MA0012_01_s _ 2017_51							
		Comn	nent Cod	le			
S1 : Repai	S1 : Repair slope instability.						
Inspector Comment							
Repair the slough on the waterside slope.							

# Photo 1 of 1: SP\_2017\_MA0012\_299\_51\_20170328\_00088.jpg



View of the slough on the waterside slope.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	9.03	Rating **	U	Issue No.		75
LM End	9.03	Issue Type +	Ma	Location *		WS
Category	Supplemental			GPS Latitude/Longitude		
Calegory	Calegory			Start		End
Item	DWR UCIP LMA Responsibility			39.1580	97°	39.158097°
пеш				-122.0217	06°	-122.021706°
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:51806 DS\_ID:17166 EP\_NO: 9390 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Ws headwal still appears to be tilting away from the levee. No wheel to operate the WS slidegate. (DWR Sutter Yard- AFreitag)10/17/2016 WS concrete headwall is still tiltig away from the levee. (DWR Sutter Yard- AFreitag)5/31/216 Ws concrete headwall is still tilting away from the levee and towards the WS ditch. (DWR Sutter Yard - afreitag)5/4/2015 WS concrete headwall tilting away from the levee slope. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Concrete Headwall tilting on WS slope. (DWR UCIP - wwylie) FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Concrete head wall, slide gate and grouted revetment on the waterside (WS). Slide gate and concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 9.24)] FS Date: 5/2/2017 2:46:54 PM

		D-4: **		Innun NIn	<b></b> / .\
LM Start	9.03	Rating **	U	Issue No.	75 (cont)
LM End	9.03	Issue Type +	Ma	Location *	WS



Tilting headwall on WS toe.



Slidegate on WS toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	9.03	Rating **	U	Issue No.		75 (cont)	
LM End	9.03	Issue Type +	Ма	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			39.15809	)7°	39.158097 °	
item				-122.02170	)6 °	-122.021706 °	
DWR ID							

### Inspector Comment

Comment Code

FS\_ID:51806 DS\_ID:17166 EP\_NO: 9390 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Ws headwal still appears to be tilting away from the levee. No wheel to operate the WS slidegate. (DWR Sutter Yard- AFreitag)10/17/2016 WS concrete headwall is still tiltig away from the levee. (DWR Sutter Yard- AFreitag)5/31/216 Ws concrete headwall is still tilting away from the levee and towards the WS ditch. (DWR Sutter Yard - afreitag)5/4/2015 WS concrete headwall tilting away from the levee slope. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Concrete Headwall tilting on WS slope. (DWR UCIP - wwylie) FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Concrete head wall, slide gate and grouted revetment on the waterside (WS). Slide gate and concrete headwall located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Profpe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 9.24)] FS Date: 5/2/2017 2:46:54 PM



slide gate and headwall on LS toe.

LM Start	9.05	Rating **	U	Issue No.		52
LM End	9.26	Issue Type +	Ma	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End
Item	Erosion /	Erosion / Bank Caving			02°	39.161462 °
item				-122.0217	07°	-122.021880 °
DWR ID	DWR MAG	012 01 s 201	7 52			

#### Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

Repair the erosion along the waterside slope

#### Photo 1 of 1 : SP\_2017\_MA0012\_299\_52\_20170328\_00089.jpg



View of the erosion along the waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

#### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	9.12	Rating **	U	Issue No.		77
LM End	9.12	Issue Type +	Ма	Location *		WS
Supplemental			GPS Latitude/Longitude			
Calegory	Category					End
Item	DWR UC	P LMA Respo	onsibility	39.15947	77°	39.159477 °
пеш				-122.02183	39°	-122.021839 °
DWR ID						

### Inspector Comment

Comment Code

FS\_ID:51809 DS\_ID:17167 EP\_NO: 9389 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard- AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP -O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate located on the waterside (WS). Concrete headwall located on the landside (LS). Pump on steel structure in slough on the LS discharges into 42-inch corrugated metal pipe riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Propfe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132. October 1959 (HLM 9.33)]

Photo 1 of 3: UCIP\_SP\_2017\_51809\_69112.jpg



Pumping plant on LS toe.

FS Date: 5/2/2017 2:48:51 PM

Rating

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

#### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	9.12	Rating **	U	Issue No.		77 (cont)	
LM End	9.12	Issue Type +	Ma	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP LMA Respo	onsibility	39.1594	77 °	39.159477°	
пеш				-122.0218	39°	-122.021839°	
DWR ID							

### Comment Code

#### Inspector Comment

FS\_ID:51809 DS ID:17167 EP\_NO: 9389 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard- AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP -O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate located on the waterside (WS). Concrete headwall located on the landside (LS). Pump on steel structure in slough on the LS discharges into 42-inch corrugated metal pipe riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Propfe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 9.33)]

FS Date: 5/2/2017 2:48:51 PM

Location



Flap gate and headwall on WS toe.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	9.12	Rating **	U	Issue No.		77 (cont)	
LM End	9.12	Issue Type +	Ма	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP LMA Respo	nsibility	39.15947	7°	39.159477	0
пеш				-122.02183	9°	-122.021839	•
DWR ID							

#### Inspector Comment

Comment Code

FS\_ID:51809 DS\_ID:17167 EP\_NO: 9389 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard- AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP -O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate located on the waterside (WS). Concrete headwall located on the landside (LS). Pump on steel structure in slough on the LS discharges into 42-inch corrugated metal pipe riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Propfe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132. October 1959 (HLM 9.33)]

FS Date: 5/2/2017 2:48:51 PM



Corrugated metal pipe at outlet.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	10.45	Rating **	М	Issue No.		24	
LM End	10.45	Issue Type +	Ma	Location *		LS	
Category	Earthen L	.evee		GPS La	atitud	e/Longitude	
Calegory	ory			Start		End	
Item	Animal Control			39.173798°		39.173798°	
item				-122.015097 °		-122.015097 °	
DWR ID	DWR_MAG	012_01_f _ 201	6_24				
		Comn	nent Cod	le			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
Inspector Comment							



View of the rodent holes along the landside slope.

LM Start	10.92	Rating **	М	Issue No.		78	
LM End	10.92	Issue Type +	Ma	Location *		LS	
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP LMA Respo	onsibility	39.1800	39°	39.180039 °	
пеш				-122.014266 °		-122.014266 °	
DWR ID							

#### Comment Code

#### Inspector Comment

FS\_ID:51810 DS\_ID:17157 EP\_NO: 9386

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/17/2016 Abandoned crossing. (DWR Sutter Yard- AFreitag)5/31/2016 Abandoned crossing. Both pipe ends and slide gate inside of riser are buried.5/4/2015 Both pipe ends and slide gate in riser are plaugged with soil. Crossing is inoperable.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Slide gate in 36-inch pipe riser on the waterside (WS) shoulder. Levee turns eastward. (Automatic Board Order (ABO) issued as Permit No. 9386, 1974 - Wescott) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 11.17)] FS Date: 5/2/2017 2:51:53 PM

#### Photo 1 of 2: UCIP\_SP\_2017\_51810\_69115.jpg



cover on 36-inch CMP standpipe on WS slope.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Maintenance Area 0012**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	03/16/2017 03/16/2017	Bob Duffey

LM Start	10.92	Rating **	М	Issue No.		78 (cont)	
LM End	10.92	Issue Type +	Ма	Location *		LS	
Supplemental			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	DWR UC	IP LMA Respo	onsibility	39.1800	39°	39.180039°	
пеш				-122.0142	66°	-122.014266 °	
DWR ID							
Comment Code							

#### Inspector Comment

FS\_ID:51810 DS ID:17157 EP\_NO: 9386

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/2/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/17/2016 Abandoned crossing. (DWR Sutter Yard- AFreitag)5/31/2016 Abandoned crossing. Both pipe ends and slide gate inside of riser are buried.5/4/2015 Both pipe ends and slide gate in riser are plaugged with soil. Crossing is inoperable.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Slide gate in 36-inch pipe riser on the waterside (WS) shoulder. Levee turns eastward. (Automatic Board Order (ABO) issued as Permit No. 9386, 1974 - Wescott) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959 (HLM 11.17)] FS Date: 5/2/2017 2:51:53 PM



Bent and broken actuator on slide gate in 36-inch CMP. Pipe appears to be filled with soil.

N: Not Inspected/Rated C: Corrected A/W : Acceptable but Monitor & Maintain Issue Type